

CURRICULUM VITAE

Christer Jansson – Professor, Senior Staff Scientist

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Personal data

Born June 5, 1950 in Södertälje, Sweden. Married to Janet Jansson. Three children (21, 19 and 19 years old).

Positions & Commissions

- Senior Staff Scientist, Earth Sciences Division, Lawrence Berkeley Lab, Berkeley, USA, 2008-.
- Head of Department, Dept. of Plant Biology & Forest Genetics, Swedish Univ. of Agricultural Sciences, Uppsala, Sweden, 2005-2007.
 - Deputy Head of Dept., 2004-2005.
 - Prof/chair in Mol. Cell Biol., 1999-2008.
- Prof. in Biochemistry, Dept. of Biochemistry, Stockholm Univ., 1994-99.
- Member of the Evaluation Committee for Energy, the Swedish Research Council, 2003-04.
- Member of the Evaluation Committee for Organism Biology, the Swedish Research Council, 2001-2007.
- Member of the Committee for Molecular Biology & Biochemistry at the Swedish Royal Academy of Sciences (KVA), 1999-2005.
- Reviewer of submitted manuscripts and grant applications.
- Appointed opponent for five Doctoral Thesis defenses in Sweden and abroad.
- Appointed member of the examining committee for Doctoral Theses defenses in Sweden and abroad.

Education

- Postdoc at Plant Res Lab, Michigan State Univ., USA, 1984-86.
- Ph.D. in Biochemistry, Lund Univ., Sweden, 1984.

Research expertise

Plant and cyanobacterial biochemistry and molecular biology. Specific areas of interest are photosynthesis, carbohydrate metabolism, metabolic engineering of plants and cyanobacteria for biofuels and carbon sequestration.

- We have isolated and characterized of a family of transcription factors, the SUSIBAs that control starch and fructan synthesis in cereals.
- We have presented a model for source-sink communication and sugar signaling during cereal endosperm development.
- In connection with this work we have established the antisense ODN technology as a powerful strategy in plant biology, e.g. as a rapid antecedent to tedious transgenic studies.
- We have demonstrated the presence of an early and atypical form of programmed cell death (PCD) during cereal endosperm development.
- We have isolated and characterized several genes involved in starch synthesis in barley, rice, sorghum and cassava.
- We have analyzed structure-function relationships of the photosystem II reaction center protein D1 by protein engineering in the cyanobacterium *Synechocystis* 6803.
- We have unraveled metabolic regulation of photosynthesis in *S. 6803*.

Grants

Receiver of a large number of competitive grants from research councils, EU and private foundations.

Scientific output

- 96 accepted papers in journals or books.
- Invited and participated in a large number of international and national conferences and meetings.
- 10 Ph.D. students have graduated in my group since 1992.

Teaching experience

I have a solid teaching expertise in Biochemistry, Cell Biology, Photosynthesis, and Plant Gene Technology. I was Director of Undergraduate Studies in Biochemistry at Stockholm University 1992-1999. During the same time, I was the responsible and main lecturer in Biochemistry with around two 10-week courses per year, and also developed course material and on-line classes in Biochemistry. I was nominated for the “Teacher of the Year” award at Stockholm University 1997, 1996, and 1994. At SLU, Uppsala, I was the responsible and main lecturer in Cell Biology with one 10-week course per year, and Photosynthesis and Plant Gene Technology with around 8 classes per year. I was Director of Undergraduate Studies at the Department during 1999-2004.

Outreach activities

- Research presentation for Prime Minister Göran Persson during his visit to SLU-Uppsala in April 2005.
- Description of our research in the magazine “SvD:s section on Research & Trade”, June 7, 2004.
- Participated in a debate on Plant Gene Technology at the Technical Museum, Stockholm, April 24, 2003.
- Participated in a debate on Plant Gene Technology at Scandic Hotel Continental, Stockholm, April 11, 2003.
- Presentation of our research to the Minister of Agriculture Ann-Christine Nyqvist, March 28, 2003.
- Presentation of our research to the Governor of Uppland Anders Björk). March 18, 2003.
- Description of our research in the daily magazine “Uppsala Nya Tidningar”, February 17, 2003.
- Interview in radio (“Vetenskapens värld”), January 28, 2002.
- Full-page description of our research in the daily magazine “Dagens Nyheter”, December 11, 2001.
- Presentation of our research for His Majesty the King during his visit to SLU-Uppsala in May 2000.
- Participated in a TV debate on Plant Gene Technology (TV program “E-fekt”, November, 1999).
- Scientific advisor to the Royal Swedish Academy of Science (KVA) for publications in the area of genetically engineered plants and microorganisms.
- A vast number of lectures and seminars in the field of Plant Gene Technology at various companies, exhibitions, universities and schools.